

IN THE CLAIMS

1. (currently amended): In combination:

(a) a computer including a computer terminal hub and lacking any wireless communications capability;

(b) a wireless computer-control device; and

(c) a wireless communication apparatus, connecting with the computer in a direct manner and communicating with the wireless computer-control device by radio; the wireless communication apparatus further comprising:

a casing;

a PCB (Printed Circuit Board) contained inside the casing;

a built-in antenna module disposed on the PCB for transmitting the wireless signal to the wireless computer-control device;

a first terminal hub on the casing coupled with the PCB inside the casing and connected to the computer terminal hub in a direct manner, whereby the computer communicates with the PCB; and

a second terminal hub on the casing coupled with the PCB inside the casing, whereby another peripheral device mated to the second terminal hub is operatively communicated with the computer terminal hub;

whereby, a single terminal hub of the computer communicates with both wired and wireless peripheral devices.

2-4. (canceled)

5. (previously presented): The wireless communication apparatus according to claim 1, wherein the wireless computer-control device is a cordless mouse or a wireless keyboard.

6-7. (canceled)

8. (previously presented): The wireless communication apparatus according to claim 1, wherein the first terminal hub is a USB (Universal Series Bus) terminal hub or a PS2 terminal hub.

9. (previously presented): The wireless communication apparatus according to claim 2, wherein the second terminal hub is a USB (Universal Series Bus) terminal hub or a PS2 terminal hub.

10-11. (canceled)

12. (original): The wireless communication apparatus according to claim 1, wherein the transmission of the wireless communication apparatus is a one-way signal transmission.

AMENDMENT 09/920,813

13. (original): The wireless communication apparatus according to claim 1, wherein the transmission of the wireless communication apparatus is a two-way signal transmission.

14. (original): The wireless communication apparatus according to claim 1, wherein the wireless communication apparatus is a one-way 2.4 GHz multiple-channel FM/ FSK receiver.

15. (original): The wireless communication apparatus according to claim 1, wherein the wireless communication apparatus is a regenerative low power-consumption one-way receiver.

16. (original): The wireless communication apparatus according to claim 1, wherein the wireless communication apparatus is a two-way 900 MHz/2.4GHz spread spectrum transceiver.

17. (previously presented): The wireless communication apparatus according to claim 1, further including a Bluetooth solution.

18. (original): The wireless communication apparatus according to claim 1, wherein the built-in antenna module is a phase matrix antenna module.

19. (previously presented): The wireless communication apparatus according to claim 18, wherein the phase matrix antenna module comprises an aluminum foil of a baseboard.

20. (currently amended): A wireless communication apparatus for a computer lacking any wireless communications capability, the apparatus comprising:

a casing;

a PCB (Printed Circuit Board) inside the casing;

an input terminal hub, on the casing, coupled with the PCB;

an output terminal hub, on the casing, operatively connected to the input terminal hub;

and

a built-in antenna module disposed on the PCB for transmitting and/or receiving wireless data to and/or from the input terminal hub from and/or to a wireless control device;

whereby, a single terminal hub of the computer communicates with both wired and wireless peripheral devices.

21. (previously presented): The wireless communication apparatus according to claim 20, wherein the wireless control device is a cordless mouse or a wireless keyboard.

22. (previously presented): The wireless communication apparatus according to claim 20, wherein the transmission of the wireless communication apparatus is a one-way signal transmission or a two-way signal transmission.

23. (previously presented): The wireless communication apparatus according to claim 22, wherein the wireless communication apparatus is a one-way 2.4 GHz multiple-channel FM/ FSK receiver.

AMENDMENT 09/920,813

24. (previously presented): The wireless communication apparatus according to claim 22, wherein the wireless communication apparatus is a regenerative low power-consumption one-way receiver.

25. (previously presented): The wireless communication apparatus according to claim 22, wherein the wireless communication apparatus is a two-way 900 MHz/2.4GHz spread spectrum transceiver.

26. (previously presented): The wireless communication apparatus according to claim 22, furthering including a Bluetooth solution.

27. (previously presented): The wireless communication apparatus according to claim 20, wherein the built-in antenna module is a phase matrix antenna module.

28. (previously presented): The wireless communication apparatus according to claim 27, wherein the phase matrix antenna module comprises an aluminum foil of a baseboard.